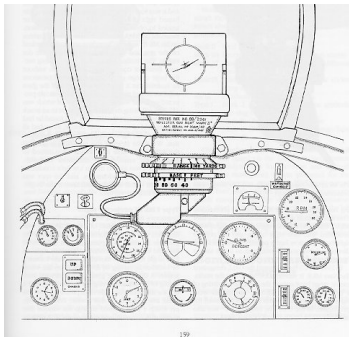


Reflector and Gyroscopic Gunsights used in WWII aircraft

Reflector Sights



This is the Mk II reflector gunsight which came into service in 1941. Common issue in the RAF



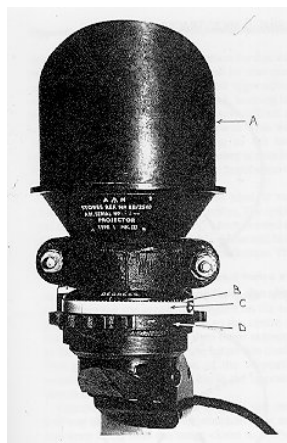
A Diagram showing how a MkII* reflector sight is mounted in a Spitfire.

The upper dial of the Stadiametric Ranging Procedure set the required range on the upper dial.

The bottom dial was set to the wingspan of the target aircraft



The Mark III was a modification to the Mk II to allow for firing of rockets. The reflector screen could be tilted forward by the pilot from 0 to 5 degrees depression, according to airspeed and the known drop of the missiles being used.

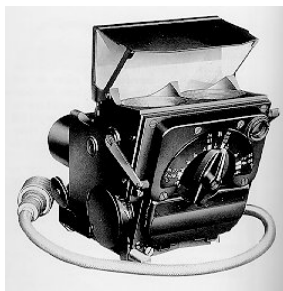


The Mark III projector sight.

First used in Hawker Tempest V in Feb 1944.

The reflector screen was removed and the graticule modified to a plain 100 mph ring and dot. The 2 control rings were replaced by one ring that moved the graticule forward or backwards. A dual purpose graticule with an adjustable ring for rocket firing and a dot for the guns.

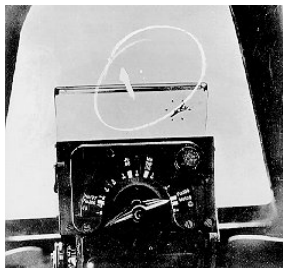
Gyroscopic gunsights



Mk. IIC gyro sunsight

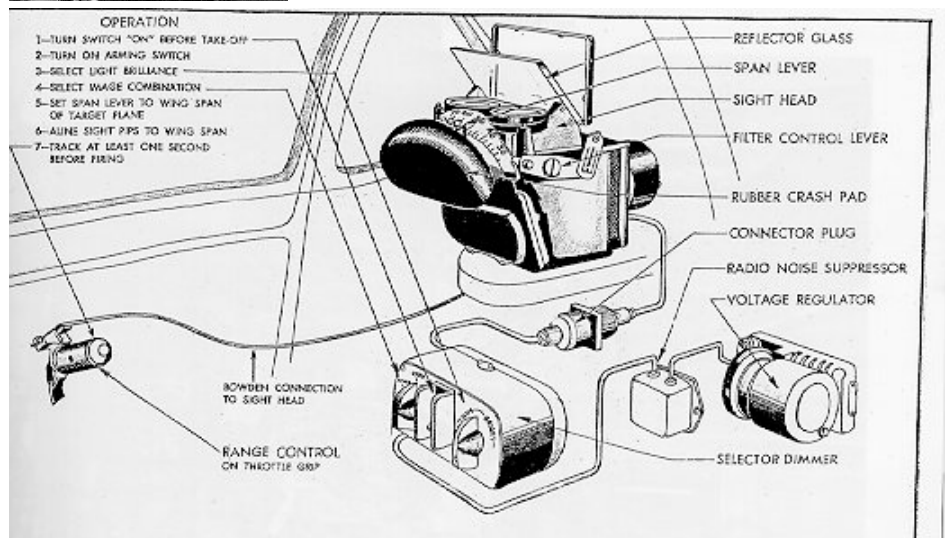
The gyro gunsight helped solved on of the most difficult problems for pilots and airgunners. Finding the correct angle of deflection or lead needed to hit the target when it moves across the line of fire. The sight would show the correct aiming mark which allowed for range, deflection and the gravity drop of the projectiles.

The Mk IIC showed two illuminated graticules. The one on the left was a fixed ring graticule which could be used if the gyro system failed, its main use being to harmonize the guns with the sight. The right half side of the screen was the gyro-controlled ring of six diamonds. The diameter of the ring was adjusted by foot pedals in the turret version and by a twist grip on the pilot's throttle lever on the fighter type.



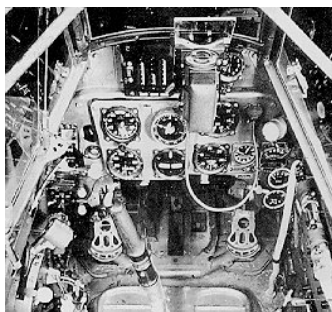
Mk IID GGS

Mounted in a Hurricane and set to engage an FW190



K14 American GGS and operating sequence.

German Reflector sight



German Revi C/12D reflector sight mounted in a Bf 109G



View through the GGS Mk 4B mounted in a Meteor (1952). The hardest part was to hold the target in the sight for two seconds or more

